152_172MP-cover 2003.7.11 4:33 PM 페이지 1

SAMSUNG DIGITall
everyone's invited™

SyncMaster 152MP/172MP

SAMSUNG
ELECTRONICS

http://www.samsung-monitor.com/ (Worldwide)

BN68-00150L-00

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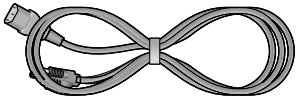
Safety Instructions

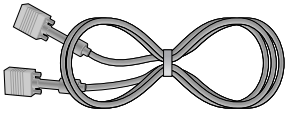
1. Do not use a damaged or loose plug.
2. Do not pull the plug out by the wire nor touch the plug with wet hands.
3. Use only a properly grounded plug and receptacle.
4. Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.
5. Disconnect the plug from the outlet during storms or lightening or if it is not used for a long period of time.
6. Do not connect too many extension cords or plugs to an outlet.
7. Do not cover the vents on the monitor cabinet.
8. Put your monitor in a location with low humidity and a minimum of dust.
9. Do not drop the monitor when moving it.
10. Place the monitor on a flat and stable surface.
11. Set down the monitor carefully.
12. Do not place the monitor face down.
13. Do not spray detergent directly on the monitor.
14. Use the recommended detergent with a smooth cloth.
15. If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.
16. Do not set a glass of water, chemicals or any small metal objects on the monitor.
17. Do not remove cover(or back). No user serviceable parts inside.
18. If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service.
19. Do not place any heavy objects on the monitor.
20. For each hour of looking at the monitor, you should let your eyes rest for 5 minutes.
21. Do not use or store inflammable substances near the monitor.
22. Do not try to move the monitor by pulling on the wire or the signal cable.
23. Do not move the monitor right or left by pulling only the wire or the signal cable.
24. Never insert anything metallic into the monitor openings.
25. Keep all power adaptors apart.
26. Keep power adaptor away from any other heat source.
27. Remove and discard vinyl bag from power adaptor before use.
28. Always keep power adaptor in well- ventilated area.
29. If you view a fixed screen for an extended period of time, residual image or blurriness may appear.

Unpacking Your Monitor

Monitor

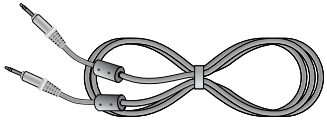


Power Cord



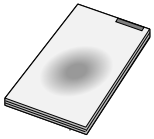
Signal Cable(15 pin D-Sub)

DC-Adapter



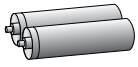
Audio Cable

Natural Color and
Driver Installation CD



User's Manual

Remote Control



Batteries (AAA X 2)

● Sold separately

TV Tuner Box

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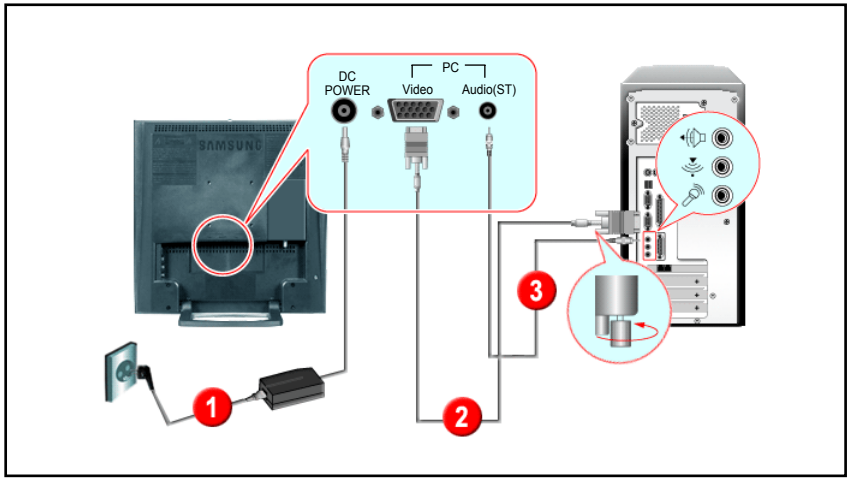
Setting up Your Monitor

● Connecting to a Computer



1. Connect the power cord to the DC adapter and connect the adapter jack to the DC POWER port on the back of your monitor.

2. Connect the signal cable to the video port on your computer.

3. Connect the audio cable for your monitor to the audio port on the back of your computer.

4. Turn on both your computer and the monitor.

5. You may enjoy clear and quality sound from the computer sound card using the monitor speakers.
   (You don't need to install any separate speakers for your computer.)

   Contact a local Samsung Electronics service center to buy optional items.

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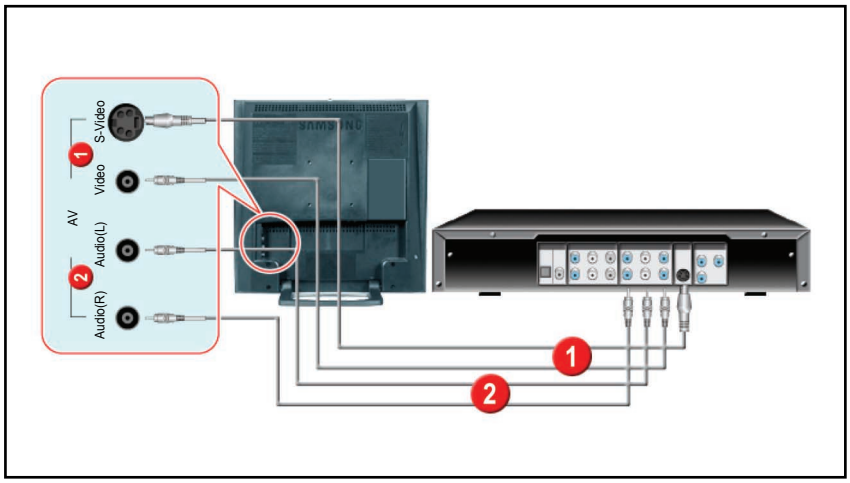
● Connecting AV Devices

The monitor has AV connection terminals to connect AV input devices like DVDs, VCRs or Camcorders. You may enjoy AV signals as long as the monitor is turned on.



1. Input devices such as DVDs, VCRs or Camcorders are connected to the S-Video terminal of the monitor using the RCA or S-VHS cable.

   S-VHS or RCA cable is optional.

2. Connect the Audio (L) and Audio (R) terminals of a DVD, VCR or Camcorders to the monitor's R and L audio input terminals using audio cables.

3. Select Video or S-Video that is connected to a DVD, VCR or Camcorders using the Source button on the monitor's front.

4. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.

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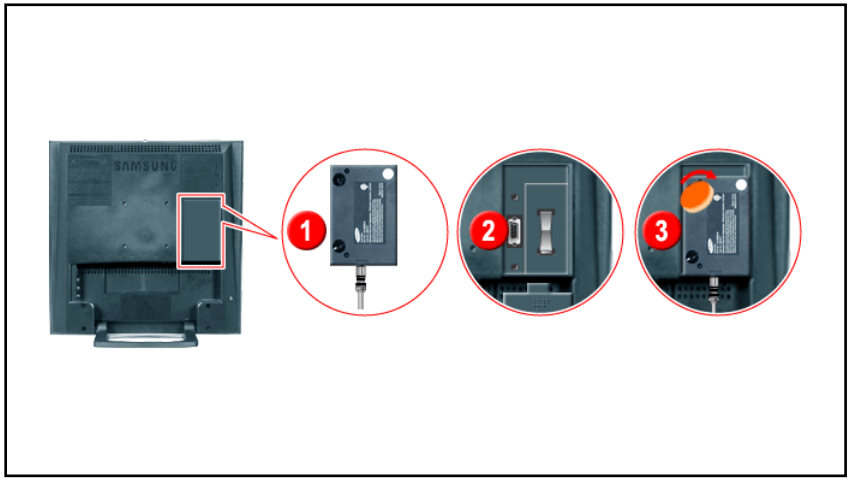
● Connecting TV (Connect a TV tuner box(option))

With a TV tuner box(option), you can watch TV simply by hooking up the monitor to an antenna or to your cable box. There is no need to buy a TV card which connects to a PC, or additional hardware or software.



1. Connect the antenna or the cable box to the TV tuner box(option), using the "ANTENNA" terminal on the tuner box.

2. Remove the TV Tuner Box cover from the rear of the monitor.

3. Insert the connected tuner box into the slot and firmly tighten the two screws using a coin to lock the box in place.
   (Loose screws may cause a blank screen or picture noise)

4. Replace the TV Tuner Box cover.

5. Turn on the monitor.

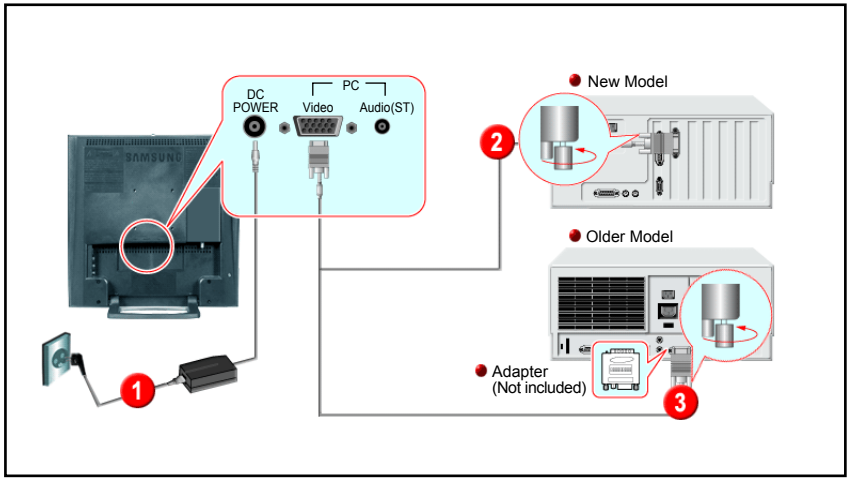
6. Select TV using Source button among the external signal adjustment buttons.

7. Select a desired TV channel.

As this product is designed for PAL or SECAM signals only, you cannot view TV programs in countries where NTSC signals are used.

Setting up Your Monitor

● Connecting to a Macintosh



1. Connect the power cord to the DC adapter and then connect the adapter jack to the DC POWER port on the monitor.
   (Voltage is automatically adjusted by the power adaptor.)

2. Connect the signal cable to the D-SUB port on the Macintosh computer.

3. For older model Macintoshes, you need to adjust the resolution control DIP switch on the Macintosh adapter (optional) referring to the switch configuration table shown on its rear.

4. Turn on the monitor and Macintosh.

Contact a local Samsung Electronics service center to buy optional items.

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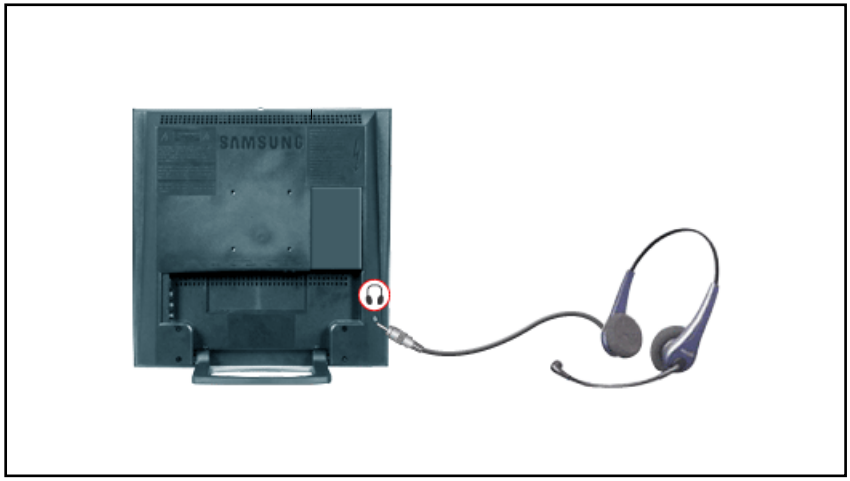
● Connecting Headphones

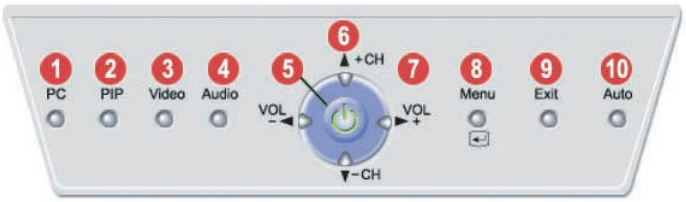
You may connect your headphones to the monitor.



1. Connect your headphones to the Headphone-out port.

Adjusting Your Monitor

● Monitor Buttons



| Source Buttons |

1. **PC mode button**
   Switches from Video mode to PC mode.

2. **PIP mode button**
   In PC Mode, turns on Video or TV screens in PIP mode. Using this function, you may view a Video or TV program while performing PC work.
   (PIP mode button works in PC mode only.)

   To switch Screen modes:[PC + TV] → [PC + Video] → [PC + S-Video]

3. **Video mode button**
   Switches from PC mode to Video mode.
   The image size automatically switches to Full when Video mode is on.

   To switch Screen modes: [TV] → [Video]] → [S-Video]

4. **Audio mode button**
   Adjusts Audio mode. You may switch to the Audio signal for the current display mode when the wrong audio is playing.

   To switch Screen modes: [PC]→ [TV] → [Video]

| Control Buttons |

5. **Power button / Power indicator**
   Use this button to turn the monitor on and off.
   Power Indicator shows PowerSaver mode by green blinking.

6. **▼+ CH / ▲- CH button**
   Moves from one menu item to another vertically or adjusts selected menu values.
   In TV mode, selects TV channels.

7. **VOL - ◀ / VOL + ▶ button**
   Moves from one menu item to another horizontally or adjusts selected menu values.
   Also adjusts the audio volume.

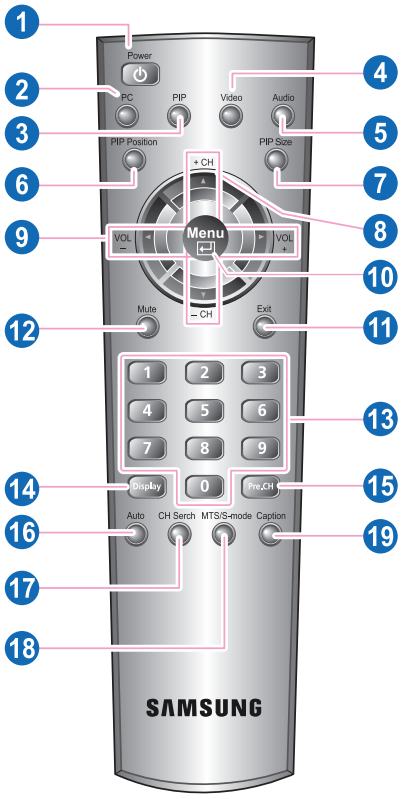
8. **Menu (↵) button**
   Use this button to open the OSD and activate a highlighted menu item.

9. **Exit button**
   Exit button exits from the menu screen or closes screen adjustment menu.

10. **Auto button**
    Auto button adjusts the screen automatically.

Adjusting Your Monitor

● Remote Control Buttons



1. Power button
2. PC button
3. PIP(Picture-in-Picture) button
4. Video button
5. Audio button
6. PIP Position button
7. PIP Size button
8. Up-Down button / Channel button
9. Left-Right button / Volume button
10. Menu button
11. Exit button
12. Mute button
13. Channel button
14. Display button
15. Previous channel button
16. Auto button
17. Channel search button
18. MTS/S-mode button
19. Caption button (US Only)

1. Power button
Use this button to turn the monitor on and off.

2-5 Source Button
See the Source Buttons above.

6 PIP Position button
Adjusts the location of Video image in PIP mode. Press VOL - ◀ / VOL + ▶ , ▲ + CH / ▼ - CH buttons to adjust the location up and down or left and right.

7 PIP Size button
Adjusts the PIP image size in PIP mode. Use the VOL - ◀ / VOL + ▶ buttons to exit PIP mode, or reduce or enlarge the PIP screen.

Adjusting Your Monitor

8-11 Control Buttons
See the Control Buttons above.

12. Mute button
Pauses (mutes) the audio output temporarily.
The audio resumes if Mute or ◀- VOL + ▶ button is pressed in the Mute mode.

13. Channel button
Selects TV channels in the TV mode. You may use this button in PIP mode as well.

14. Display button
Shows a Video Source, Audio Source, current channel number, an audio type and Speaker Mute ON/OFF on the upper right corner of the screen.

15. Previous channel button
This button is used to return to the immediately previous channel.

16. Auto button
Adjusts the screen display automatically.

17. Channel search button
Automatically scans and registers TV channels available (viewable) in the current location.

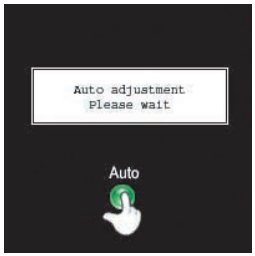
18. MTS/S-mode button
When you press this button, current audio mode is displayed on the lower left corner of the screen. (Only TV Screen)

Color System	Sound System	Stereo System	Channel System	Countries
PAL	B/G	A2	CCIR	Germany, Austria, Swiss, Netherlands
			AUSTRALIA	Australia
		NICAM	CCIR	Sweden, Spain, Denmark, Norway, Finland, Belgium, Iceland, Portugal, Malaysia, Singapore, Thailand
		Unknown	CCIR	India, Israel, Kuwait, Jordan, Yugoslavia
	I	NICAM	CCIR	UK, Hongkong

Adjusting Your Monitor

● Direct-Access Features

1. Auto Adjustment



The monitor display becomes more stabilized if adjusted by Auto Adjustment functions when the monitor is installed for the first time.
Try Auto Adjustment before attempting Manual Adjustment.
Ensure the clock frequency of the monitor matches that of the computer video card before carrying out Auto Adjustment.

When the Auto button is pressed, the monitor screen turns black and the Auto Adjustment screen appears as shown in the animated screen on the left.

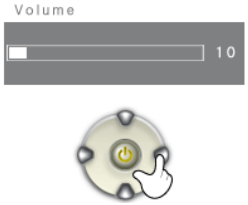
2. OSD Lock/Unlock

This function allows you to secure the current settings so that they cannot be inadvertently changed.
With the OSD screen off, push and hold the Menu button for at least 5 seconds to lock or unlock the controls.
The following functions are available even while the OSD menu is locked.
1. Control buttons Source button, PIP button, Volume button, Channel button, Menu button, Exit button, Auto button
2. PC Screen Brightness, Contrast
3. TV Screen Channel, Volume

With the OSD screen off, push and hold the Menu button for five or more seconds to unlock the OSD settings.

This function is activated by pressing the Menu button on the front panel of the monitor. (It is not available by pressing the Menu button on the remote controller.)

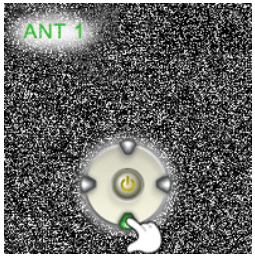
3. Volume



When OSD is not on the screen, push the ◀ or ▶ button to adjust volume.

1. Push the ◀ button to decrease the volume.
2. Push the ▶ button to increase the volume.

4. Channel



When OSD is not on the screen, push the ▲ or ▼ button to select channel number.

1. Push the ▼ button to decrease the channel number.
2. Push the ▲ button to increase the channel number.

This function is available in TV or PC + TV (PIP) mode only.

This function is available in TV or PC + TV (PIP) mode only. You need to connect a TV tuner box (option) to make PC+TV mode appear in TV mode or PIP mode.

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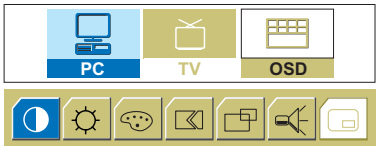
On Screen Display

● PC Screen



Contrast
Adjust Contrast.

Brightness
Adjust Brightness.

Color Control
The tone of color can be changed from redish white to bluish white.
The individual color components are also user customizable.

1) Mode 1 : Plain white.
2) Mode 2 : Reddish white.
3) Mode 3 : Bluish white.
4) User Mode : User customizable.
5) Reset : Color parameters are replaced with the factory default values.

Image
This menu includes Image Lock and Image Effect as its sub-menu.

1) Image Lock:
Image Lock is used to fine tune and get the best image by removing noises that creates unstable images with jitters and shimmers. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again.

- Coarse : Removes noise such as vertical stripes.
  Coarse adjustment may move the screen image area.
  You may relocate it to the center using the Horizontal Control menu.
- Fine : Removes noise such as horizontal stripes. If the noise persists even after Fine tuning, repeat it after adjusting the frequency (clock speed).
- Information : Display current display mode.
- Reset : Image lock and position parameters are replaced with the factory default values.

2) Image Effect:
Image being displayed can be made softer or sharper.

- Sharpen more
- Sharpen
- Medium
- Soften
- Soften more

Position
This adjusts the screen location horizontally and vertically.

Adjusting Your Monitor

Sound

The monitor has a built-in high fidelity stereo audio amplifier.

1) Mode

- **Custom** : Choose Custom to recall your personalized settings.
  - **Bass** : Emphasize low frequency audio.
  - **Treble** : Emphasize high frequency audio.
- **Standard** : Choose Standard for the standard factory settings.
- **Music** : Choose Music when watching music videos or concerts.
- **Movie** : Choose Movie when watching movies.
- **Speech** : Choose Speech when watching a show that is mostly dialogue (i.e., news).

PIP

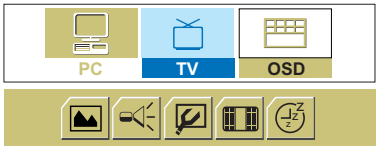
When external A/V devices such as VCR or DVD are connected to the monitor, PIP allows you to watch video from such devices in a small window super-imposed on pc video signal.

1) Size : Adjusts the PIP Screen Size

2) Position : Change PIP window position.

● TV Screen

You can use this function only if your monitor is connected to a TV tuner box (option).
If the video adjustment icon is shown on the screen, your TV tuner box has not been properly connected to the monitor.



Picture

Controls Contrast, Brightness, Sharpness, Color and Tint of the TV image.

1) Mode

- **Custom** : Choose Custom to recall your personalized settings.
  - **Contrast** : Adjust the contrast of TV without affecting PC RGB's contrast.
  - **Brightness** : Adjust the brightness of TV without affecting PC RGB's brightness.
  - **Sharpness** : Adjust the sharpness of TV image.
  - **Color** : Change the richness of color.
  - **Tint** : Change the tone of color.
- **Dynamic** : Choose Dynamic for viewing the TV during the day or when there is bright- light in the room.
- **Standard** : Choose Standard for the standard factory settings.
- **Movie** : Choose Movie when viewing the movie.

2) Color tone

- **Normal** • **Warm 1** • **Warm 2** • **Cool 1** • **Cool 2**

Adjusting Your Monitor

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- **Standard** : Choose Standard for the standard factory settings.
- **Music** : Choose Music when watching music videos or concerts.
- **Movie** : Choose Movie when watching movies.
- **Speech** : Choose Speech when watching a show that is mostly dialogue (i.e., news).

Channel

1) Auto Store : You can scan the frequency ranges available on your television in your area and store all the channels found automatically. The following Countries are available.
: Beligie, Espania, Italia, Nederland, Schweiz, Sverige, UK, France, Deutschland, East Europe.

2) Manual Store : You can scan the frequency ranges available on your television in your area and store all the channels found manually.

- **Color system** : Adjust repeatedly until the color is of the best quality. (Auto ↔ PAL ↔ SECAM ↔ NT4.43)
- **Sound system**: Adjust repeatedly until the sound is of the best quality. (BG ↔ DK ↔ I ↔ L)
- **Search** : The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.
- **Channel** : Choosing the air channel through the adjustment of up/down under the current frequency.
- **Prog.No** : Inputting the appropriate program number on the screen.
- **Store** : It's used to restore the number user inputs.

3) Add/Delete : Adds or Delete channels from the memory.

4) Fine Tune : Due to week signal or an incorrect antenna configuration, some of the channels may not be turnd correctly.

5) Sort : It's used to exchange the numbers of two channels.

Size

1) Normal
Sets the picture to 4:3 normal mode(This is the standard TV screen size.)

2) Wide
Sets the picture to 16:9 wide mode.

3) Zoom
Magnifies the size of the picture on screen.

This feature does not work in PIP mode.

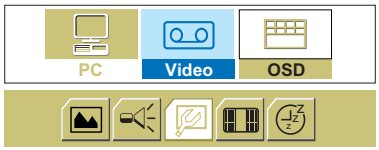
Sleep Timer

Automatically shuts off the screen at a pre-programmed time (30 min., 60 min., 120 min.)

Adjusting Your Monitor

● Video Screen

You can use this function only if your monitor is not connected to a TV tuner box.



Picture

Controls Contrast, Brightness, Sharpness, Color and Tint of the Video image.

1) Mode

- **Custom** : Choose Custom to recall your personalized settings.
  - **Contrast** : Adjust the contrast of Video without affecting PC RGB's contrast.
  - **Brightness** : Adjust the brightness of Video without affecting PC RGB's brightness.
  - **Sharpness** : Adjust the sharpness of Video image.
  - **Color** : Change the richness of color.
  - **Tint** : Change the tone of color.
- **Dynamic** : Choose Dynamic for viewing the Video during the day or when there is bright- light in the room.
- **Standard** : Choose Standard for the standard factory settings.
- **Movie** : Choose Movie when viewing the movie.

2) Color tone

- **Normal** • **Warm 1** • **Warm 2** • **Cool 1** • **Cool 2**

Sound

The monitor has a built-in high fidelity stereo audio amplifier.

1) Mode

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Size

1) Normal

Sets the picture to 4:3 normal mode(This is the standard TV screen size.)

2) Wide

Sets the picture to 16:9 wide mode.

3) Zoom

Magnifies the size of the picture on screen.

This feature does not work in PIP mode.

Sleep Timer

Automatically shuts off the screen at a pre-programmed time (30 min., 60 min., 120 min.)

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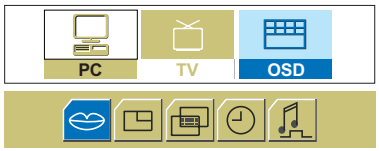
Adjusting Your Monitor

● OSD Control

Press the Exit button to make the menu disappear. The adjustments made are saved automatically as the menu screen disappears. The OSD (On-Screen Display) feature may not function properly depending on input signals.



Language
You can choose one of 8 languages. (English, German, Spanish, French, Italian, Swedish, Portuguese, Nederlands)

Position
Move the OSD Window to the vertical and horizontal direction.

HalfTone
Change the opaqueness of the background of the OSD.

Duration
The number of seconds that the OSD will remain visible before disappearing.

Beep
Press Beep to turn the beeping sound on/off when you press buttons.

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you move the computer's mouse or press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

SyncMaster 152MP

State	Normal Operation	Power saving mode EPA/ENERGY 2000	Power off(120Vac)
Power Indicator	Green	Green, Blinking	Black
Power Consumption	Less than 48.0W	Less than 2W	2W

SyncMaster 172MP

State	Normal Operation	Power saving mode EPA/ENERGY 2000	Power Switch off
Power Indicator	Green	Green, Blinking	Black
Power Consumption	Less than 58.0W	Less than 2W	2W

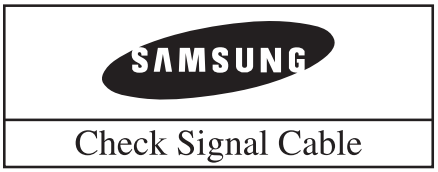
This monitor is EPA ENERGY STAR ® compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPMS functionality.
As an ENERGY STAR ® Partner, SAMSUNG has determined that this product meets the ENERGY STAR ® guidelines for energy efficiency.

Troubleshooting

● **Self-Test Feature Check**

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.
   The figure shown below ("Check Signal Cable") appears on a black background when the monitor is in its normal working condition though it does not sense any video signal: While in the Self-Test mode, the LED power indicator remains green and the figure moves around on the screen.



   Failure of any of the boxes to appear indicates a problem with your monitor. This box also appears during normal operation if the video cable becomes disconnected or damaged.
4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor. If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; **your monitor is functioning properly.**

● **Video mode not supported**

This indicates the display resolution or refresh rate is not properly set on your computer video card. Reboot the computer in Safe Mode and select "Default" in the "Refresh Rate Unknown" box while setting Adapter for Display Properties.

Contact the computer dealer or manufacturer for information on Safe Mode Booting.

Refer to Preset Timing Modes (refer to P.28) for the resolutions or frequencies that are supported by the monitor.

Sometimes the screen turns black without the “Video mode not supported” message appearing on the screen. This indicates the monitor is set for a frequency out of range or the PowerSaver mode is on.

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Troubleshooting

● Display Adapter Driver

Display adapter refers to the computer video card driver. If the adapter is not properly set, you cannot adjust resolution, frequency or color and you cannot install the monitor driver.

1. Checking Adapter Driver (explained based on Windows 98)
   Click Start → Settings → Control Panel → Display → Settings → Advanced → Adapter.
   If "Default" or a wrong product model is indicated, it means that the adapter driver is not properly installed.
   Install the adapter driver again according to the information provided by the computer or video card manufacturers.

2. Installing Adapter Driver
   The instructions given below are for general circumstances.
   For specific issues, contact the relevant computer or video card manufacturers.
   1) Click Start → Settings → Control Panel → Display → Settings → Advanced → Adapter → Update Driver → Next → Display a list of the known drivers for this device so that I can choose a specific driver → Next → Have Disk (Insert Video Card Driver diskette) → OK → Next → Next → Finish.
   2) In case you have Adapter Driver Setup file on your computer:
   Run Setup.exe or Install.exe, which is found in the Adapter Driver Setup file.

● Maintenance and Cleaning

1. Maintaining the Monitor Case

Clean with a soft cloth after disconnecting the power cord.

- Do not use benzene, thinner or other flammable substances, or a wet cloth.
- We recommend a Samsung cleansing agent is used to prevent damage to the screen.

2. Maintaining the Flat Panel Display Screen

Clean with a soft cloth (cotton flannel) smoothly.

- Never use acetone, benzene or thinner.
  (They may cause flaws or deformation of the screen surface.)
- The user will be required to pay costs and related expenses for repair of damages caused by him/her.

● Symptoms and Recommended Actions

A monitor recreates visual signals received from the PC.
Therefore, if there is trouble with the PC or the video card, this can cause the monitor to become blank, have poor coloring, noise, Video mode not supported, etc. In this case, first check the source of the problem, and then contact a service center or your dealer.

1. Check if the power cord and the cable are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.
   (If it does, request an after-service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if the installed the adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 75Hz.
   (Do not exceed 60Hz when using the maximum resolution.)
5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "**Control Panel, System, Device Administrator**" and then reboot the computer to reinstall the adapter (video) driver.

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Troubleshooting

Problems related to Installation

Problems related to the monitor installation and their solutions are listed.

Problems	Solution
It appears the PC does not function normally.	· Check if the Display Adapter Driver (VGA Driver) is properly installed.
The monitor screen flickers.	· Check if the signal cable between the computer and the monitor is securely connected and tightened.
TV screen is blurred or shows noise signals.	· Check if the TV antenna connector is securely connected to the external antenna.
TV signal is not received	· Check "Channel system" and make sure you choose the correct channel system. · Select "Channel auto program" to configure the channel system automatically.

Problems related to Audio

Problems related to audio signals and their solutions are listed below.

Problems	Solution
No sound.	· Ensure that the audio cable is firmly connected to both the audio-in port on your monitor and the audio-out port on your sound card. · Check the volume level.
Sound level is too low.	· Check the volume level. · If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.
Sound is too high pitched or too low pitched.	· Adjust the Treble and Bass to appropriate level.

Problems related to Remote Control

Problems related to the monitor installation and their solutions are listed.

Problems	Items to check
The remote control buttons do not respond.	· Check the battery polarities (+/-). · Check if the batteries have been exhausted. · Check if the power is on. · Check if the power cord is securely connected. · Check if a special fluorescent or neon lamp is on in the vicinity.

Troubleshooting

Problems related to Screen

Problems related to the monitor screen and their solutions are listed.

Problems	Solution
Screen is blank and power indicator is off	· Ensure that the power cord is firmly connected and the LCD monitor is on.
"Check Signal Cable" message.	· Ensure that the signal cable is firmly connected to the PC or video sources. · Ensure that the PC or video sources are turned on.
"Video mode not supported" message.	· Check the maximum resolution and the frequency of the video adaptor. · Compare these values with the data in the Preset Timing Modes Chart.
Picture rolls vertically.	· Check if the signal cable is securely connected. · Connect it again securely.
Image is not clear. Picture is blurred.	· Run Frequency Coarse and Fine tuning. · Turn on again after removing all accessories (video extension cable, etc.) · Set resolution and frequency to the recommended ranges. · 15 inch model (1024 x 768 @ 60Hz), 17 inch model (1280 x 1024 @ 60Hz)
Picture image is unstable and vibrates.	· Check if the resolution and frequency set for the computer video card falls in the range supported by the monitor. If not, reset them referring to the current Information under the monitor menu and Preset Timing Modes.
Ghost images are shown in the picture.	
The image is too light or too dark.	· Adjust the Brightness and Contrast.
Screen color is inconsistent.	· Adjust color using User Mode under OSD Color Adjustment menu.
Color image is distorted with dark shadows.	
White color is poor.	
Power Indicator blinks green.	· The monitor is currently saving the changes made in settings to the OSD memory.
Screen is blank and power indicator light is steady green or blinks every 0.5 or 1 seconds	· The monitor is using its power management system. · Move the computer's mouse or press a key on the keyboard.
The monitor front control buttons do not respond.	· Check if OSD Lock/Unlock is on by pressing Menu button. · If the problem persists, contact the service center.

Troubleshooting

Frequently asked questions are summarized here for your reference.

Question	Answer
How can I change the frequency?	Frequency can be changed by reconfiguring the video card. Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	**Windows XP:** Reset resolution by clicking Control Panel –> Appearance & Theme –> Display –> Settings. **Windows ME/2000:** Set the resolution at the Control Panel –> Display –> Settings. * Contact the video card manufacturer for details.
How can I set the Power Saving function?	**Windows XP:** Reset Power Saving parameters by clicking Control Panel –> Appearance & Theme –> Display –> Screen Saver or in the computer BIOS SETUP. (Refer to Windows/Computer Manual) **Windows ME/2000:** Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
How can I clean the outer case/LCD Panel?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.
Installing the Monitor Driver	When prompted by the operating system for the monitor driver, insert the CD- ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions as appropriate for the operating system you have. Prepare a blank disk and download the driver program file at the Internet web site shown here. Internet web site : http:// www. samsung- monitor. com/ (Worldwide)

Specifications

SyncMaster 152MP

General	
Model Name	SyncMaster 152MP
LCD Panel	
Size	15.0 inch (Diagonal)
Display area	304.128 (H) x 228.056(V)
Pixel Pitch	0.297 (H) x 0.297 (V)
Type	a-si TFT active matrix
Viewing Angle	140°(H)/ 120°(V)
Synchronization	
Horizontal	30 ~ 60 kHz
Vertical	56 ~ 75 Hz
Display Color	
16,194,277 Colors	
Resolution	
Optimum resolution	1024 x 768@60Hz
Maximum resolution	1024 x 768@75Hz
Input Signal, Terminated	
RGB Analog, Composite H/V, 0.7Vp-p Positive at 75 ohm, Separate H / V sync, TTL level positive or negative	
TV / Video	
Color system	PAL,SECAM, NTSC 4.43
Sound system	BG, DK, I, L
Video format	CVBS, S-VHS
Maximum Pixel Clock	
80 MHz	
Power Supply	
90 to 264 VAC, 60/50Hz ± 3Hz	
Signal Cable	
15pin-to-15pin D-sub cable, detachable	
Power Consumption	
48.0 W (Maximum)	
Power Saving	
Less than 2W	
Dimensions (WxDxH)/ Weight	
358.6 x 175.5 x 361.5 mm (when stand is not foleded)	
358.6 x 51.0 x 402.6 mm (when stand is not foled)	
358.6 x 51.0 x 350.6 mm / 3.45 kg (Without stand)	

Specifications

VESA Mounting Interface	
75mm x 75mm (for use with Specialty(Arm) Mounting hardware.)	
Environmental considerations	
Operating	Temperature : 50°F ~ 104°F(10°C ~ 40°C)
	Humidity : 10% ~ 80%, non-condensing
Storage	Temperature : -4°F ~113°F (-20°C ~ 45°C)
	Humidity : 5% ~ 95%, non-condensing

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system.
Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen.
This is not from bad quality and you can use it without uneasiness.

The number of TFT LCD pixels : 15 inch: 2,359,296

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Specifications

SyncMaster 172MP

General	
Model Name	SyncMaster 172MP
LCD Panel	
Size	17.0 inch (Diagonal)
Display area	337.92 (H) x 270.336 (V)
Pixel Pitch	0.264 (H) x 0.264 (V)
Type	a-si TFT active matrix
Viewing Angle	170°(H)/ 170°(V)
Synchronization	
Horizontal	31 ~ 81 kHz
Vertical	56 ~ 75 Hz
Display Color	
16,194,277 Colors	
Resolution	
Optimum resolution	1280 x 1024@60Hz
Maximum resolution	1280 x 1024@75Hz
Input Signal, Terminated	
RGB Analog, Composite H/V, 0.7Vp-p Positive at 75 ohm, Separate H / V sync, TTL level positive or negative	
TV / Video	
Color system	PAL, SECAM, NTSC 4.43
Sound system	BG, DK, I, L
Video format	CVBS, S-VHS
Maximum Pixel Clock	
135 MHz	
Power Supply	
90 to 264 VAC 60/50 ± 3Hz	
Signal Cable	
15pin-to-15pin D-sub cable, detachable	
Power Consumption	
58.0 W (Maximum)	
Power Saving	
Less than 2W	
Dimensions (WxDxH)/ Weight	
412.0 x 203.0 x 414.5 mm (when stand is not foleded)	
412.0 x 58.5 x 472.0 mm (when stand is foled)	
412.0 x 58.5 x 407.5 mm / 4.85 kg (Without stand)	

Specifications

VESA Mounting Interface	
100mm x 100mm (for use with Specialty(Arm) Mounting hardware.)	
Environmental considerations	
Operating	Temperature : 50°F ~ 104°F(10°C ~ 40°C)
	Humidity : 10% ~ 80%, non-condensing
Storage	Temperature : -4°F ~113°F (-20°C ~ 45°C)
	Humidity : 5% ~ 95%, non-condensing

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system.
Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen.
This is not from bad quality and you can use it without uneasiness.

The number of TFT LCD pixels : 17 inch: 3,932,160

Display Modes

If the signal transferred from the computer is the same as the following Display Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
SyncMaster 152MP/172MP				
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+,-/+,-
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
SyncMaster 172MP only				
VESA, 1280 x 1024	63.981	60.020	10.800	+/+
VESA, 1280 x 1024	79.976	75.025	13.500	+/+
VESA, 1280 x 1024	81.129	76.106	13.500	-/-

PAL Broadcasting Systems

Color System	Sound System	Stereo System	Channel System	Countries
PAL	B/G	A2	CCIR	Germany, Austria, Swiss, Netherlands
			AUSTRALIA	Australia
		NICAM	CCIR	Sweden, Spain, Denmark, Norway, Finland, Belgium, Iceland, Portugal, Malaysia, Singapore, Thailand
		Unknwn	CCIR	India, Israel, Kuwait, Jordan, Yugoslavia
	I	NICAM	CCIR	UK, HongKong

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz